

GILA RIVER BASIN

09519500 GILA RIVER BELOW GILLESPIE DAM, AZ

LOCATION--Lat 33°13'45", long 112°46'00", in SE1/4NE1/4 sec.28, T.2 S., R.5 W., Maricopa County, Hydrologic Unit 15070101, at left end of Gillespie Dam, 8 mi downstream from Hassayampa River.

DRAINAGE AREA--49,650 mi².

PERIOD OF RECORD--Aug. 1921 to current year. Low-flow records prior to Oct. 1970 are not equivalent as leakage of less than 5 ft³/s not included, and from Oct. 1971 to Sept. 1973, when no leakage was included. Annual estimate of leakage was listed in REMARKS for the 1972 water year. Prior to 1939, published as "at Gillespie Dam."

REVISED RECORDS--WSP 1213: 1939. WSP 1243: 1924(M). WSP 1926: Drainage area.

GAGE--Water-stage recorder since July 28, 1924. Datum of gage is 9.95 ft below average elevation of crest of dam, which is 753.46 ft above sea level. Prior to Nov. 11, 1924, depth of water read on crest at left end of dam. Nov. 11, 1924, to July 22, 1932, datum of gage was at average elevation of dam crest. July 23, 1932, to Apr. 27, 1955, datum of gage was 5.00 ft below average elevation of crest of dam. Apr. 2, 1974 to Jan. 31, 1986, supplementary water-stage recorder and concrete control 70 ft downstream from crest of dam at datum 5.64 ft lower than datum of base gage. Since Jan. 31, 1986, supplementary water-stage recorder at bridge 0.1 mi downstream at different datum.

REMARKS--Records fair, no estimated daily discharges. On Jan. 9, 1993 the dam breached causing all the flow to go through an opening about 150 ft wide. Flow does not include water diverted to Gila Bend or Enterprise Canals. See sta 09518000, Gila River above diversions, at Gillespie Dam, for records of flow reaching dam, and of diversions to Gila Bend and Enterprise Canals. For diversions and regulation above station, see REMARKS for sta 09518000.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 178,000 ft³/s Feb. 16, 1980, gage height, 18.81 ft, present datum; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD--Maximum discharge since at least 1891, 250,000 ft³/s, estimated, in Feb. 1891.

EXTREMES FOR CURRENT YEAR--Maximum daily discharge, 203 ft³/s, Nov. 29; minimum daily, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.91	25	187	40	31	67	16	1.0	0.60	0.33	15	0.00
2	2.4	39	172	57	33	52	53	0.74	4.0	0.05	9.8	0.01
3	16	51	104	58	62	56	104	6.4	7.4	0.07	2.0	0.02
4	18	25	60	73	78	50	68	0.73	1.8	0.05	4.5	0.04
5	12	24	19	103	44	75	121	1.2	1.5	0.04	5.3	0.02
6	17	43	18	90	15	40	54	1.1	8.5	0.04	17	0.04
7	39	39	24	71	1.4	19	15	5.3	20	0.06	11	0.03
8	47	71	34	36	18	35	6.9	7.1	20	0.04	0.13	0.04
9	34	57	33	54	33	39	24	8.6	20	0.00	0.01	0.10
10	30	52	28	39	47	30	37	16	12	0.00	0.01	2.6
11	37	46	13	52	37	10	27	26	29	0.00	0.01	12
12	54	52	25	64	19	24	16	25	22	0.00	0.05	1.5
13	35	52	49	48	43	6.5	31	20	0.99	0.55	0.14	0.79
14	32	47	55	29	85	8.7	27	13	4.5	0.01	0.18	2.1
15	18	53	74	8.5	67	27	34	5.4	6.3	5.9	11	17
16	7.1	50	38	30	41	46	13	15	11	24	14	15
17	0.94	52	34	35	16	37	8.7	27	10	40	14	19
18	2.3	57	27	36	27	38	38	21	17	34	0.19	18
19	0.88	59	1.7	52	29	40	51	27	18	17	0.09	21
20	1.1	57	0.67	43	49	41	25	16	2.5	5.1	0.14	36
21	22	55	8.2	47	62	16	5.7	20	13	1.4	0.92	28
22	29	83	0.86	53	65	10	3.5	11	18	3.2	1.4	7.3
23	35	181	8.5	41	100	21	9.9	24	11	0.16	0.14	21
24	32	176	24	99	69	14	30	22	5.8	0.26	4.5	40
25	13	134	44	105	43	1.8	28	21	0.90	0.00	0.36	44
26	4.5	127	64	97	60	13	20	14	0.30	0.00	0.04	27
27	17	131	56	106	66	23	5.3	8.8	0.35	0.00	0.07	15
28	16	200	57	63	58	8.4	5.1	11	0.42	0.00	15	18
29	27	203	77	23	54	22	2.3	7.5	0.41	0.00	1.9	25
30	34	140	47	16	---	5.5	0.81	2.9	0.50	2.8	0.00	26
31	36	---	30	29	---	5.4	---	2.2	---	0.43	0.00	---
TOTAL	670.13	2381	1412.93	1697.5	1352.4	881.3	880.21	387.97	267.77	135.49	128.88	396.59
MEAN	21.6	79.4	45.6	54.8	46.6	28.4	29.3	12.5	8.93	4.37	4.16	13.2
MAX	54	203	187	106	100	75	121	27	29	40	17	44
MIN	0.88	24	0.67	8.5	1.4	1.8	0.81	0.73	0.30	0.00	0.00	0.00
AC-FT	1330	4720	2800	3370	2680	1750	1750	770	531	269	256	787
CAL YR 2003	TOTAL 15692.14	MEAN 43.0	MAX 701	MIN 0.00	AC-FT 31130							
WTR YR 2004	TOTAL 10592.17	MEAN 28.9	MAX 203	MIN 0.00	AC-FT 21010							